

IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~strikethrough~~. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Please AMEND claims 1-7, 9, 12-14, 16-17, 22-24, 35, 41-50, 52, 54-55, 59, 61-63, 65-71, 73, 75-76, 81-86, and 88-92 in accordance with the following:

1. (CURRENTLY AMENDED) An optical recording medium comprising:
 - a read-only storage area;
 - a non-magnetic writable storage area;
 - a read-only lead-in area having first control information for both the read-only and non-magnetic writable storage areas; and
 - a non-magnetic writable lead-in area having second control information relating to the non-magnetic writable storage area.
2. (CURRENTLY AMENDED) The optical recording medium according to claim 1, wherein:
 - the read-only storage area comprises
 - the read-only lead-in area,
 - a read-only memory (ROM) data area, and
 - a read-only lead-out area; and
 - the non-magnetic writable storage area comprises
 - the non-magnetic writable lead-in area which comprises a connection zone to connect the read-only storage area and the non-magnetic writable storage area,
 - a random access memory (RAM) data area, and
 - a read-only lead-out area.
3. (CURRENTLY AMENDED) The optical recording medium according to claim 2, wherein the read-only lead-in area comprises hybrid identification information indicating that the optical recording medium is a hybrid disc having the read-only storage area and the non-magnetic writable storage area.
4. (CURRENTLY AMENDED) The optical recording medium according to claim 3, wherein the hybrid identification information comprises information indicating a presence or

absence of the non-magnetic writable storage area, and information on a part version of the hybrid disc.

5. (CURRENTLY AMENDED) The optical recording medium according to claim 1, wherein the read-only lead-in area comprises hybrid identification information indicating that the optical recording medium is a hybrid disc having the read-only storage area and the non-magnetic writable storage area.

6. (CURRENTLY AMENDED) The optical recording medium according to claim 2, wherein the hybrid identification information comprises information indicating a presence or absence of the non-magnetic writable storage area, and information on a part version of the hybrid disc.

7. (CURRENTLY AMENDED) The optical recording medium according to claim 1, wherein:

the non-magnetic writable storage area comprises a control data zone; and

the read-only lead-in area comprises first physical format information of the read-only storage area and second physical format information of the control data zone.

8. (ORIGINAL) The optical recording medium according to claim 7, wherein the first physical format information comprises reserved bytes which stores the second physical format information.

9. (CURRENTLY AMENDED) The optical recording medium according to claim 2, wherein:

the non-magnetic writable storage area comprises a control data zone; and

the read-only lead-in area comprises physical format information of the read-only storage area and physical format information of the control data zone.

10. (CANCELED)

11. (ORIGINAL) The optical recording medium according to claim 1, wherein the read-only storage area and the read-only lead-in area are compatible with a read-only memory (ROM) specification.

12. (CURRENTLY AMENDED) The optical recording medium according to claim 11,

wherein the ROM specification is a digital versatile disc (DVD)-ROM specification and the non-magnetic writable storage area and the non-magnetic writable lead-in area are compatible with a DVD-RAM specification.

13. (CURRENTLY AMENDED) The optical recording medium according to claim 1, wherein a minimum size of the non-magnetic writable storage area is at least as great as a size of a single zone defined by a digital versatile disc random access memory (DVD-RAM) specification.

14. (CURRENTLY AMENDED) The optical recording medium according to claim 1, wherein:

the read-only storage area has a start position at a diameter of approximately 48mm, and an ending position at a diameter greater than the approximately 48mm and less than approximately 116mm if the optical recording medium has a diameter of approximately 120mm, and has the start position at a diameter of approximately 48mm, and an ending position at a diameter greater than the approximately 48mm and less than approximately 76mm if the optical recording medium has a diameter of approximately 80mm; and

the non-magnetic writable storage ~~medium~~area is arranged in a remaining area of the optical recording medium which does not contain read-only data.

15. (ORIGINAL) The optical recording medium according to claim 1, wherein the read-only lead-in area comprises:

a control data zone which stores the first control information.

16. (CURRENTLY AMENDED) The optical recording medium according to claim 15, wherein the first control information comprises:

physical format information for the read-only storage area;

hybrid disc identification information indicating that the optical recording medium is a hybrid disc having the read-only storage area and the non-magnetic writable storage area; and

physical format information for the non-magnetic writable storage area.

17. (CURRENTLY AMENDED) The optical recording medium according to claim 16, wherein the physical format information for the non-magnetic writable storage area is stored in bytes 1024 through 2047 of the first control information.

18. (ORIGINAL) The optical recording medium according to claim 17, wherein the

physical format information for the read-only storage area is stored in bytes 0 through 16 of the first control information and the hybrid disc identification information is stored in bytes 17 and 18 of the first control information.

19. (ORIGINAL) The optical recording medium according to claim 16, wherein the physical format information for the read-only storage area comprises:

book type information indicating that the optical recording medium is compatible with a digital versatile disk read-only memory (DVD-ROM) specification; and
a part version indicating a version number of the optical recording medium.

20. (ORIGINAL) The optical recording medium according to claim 18, wherein the physical format information for the read-only storage area comprises:

book type information indicating that the optical recording medium is compatible with a digital versatile disk read-only memory (DVD-ROM) specification; and
a part version information indicating a version number of the optical recording medium;
wherein the book type information and part version information are stored in byte 0 of the first control information.

21. (ORIGINAL) The optical recording medium according to claim 16, wherein the hybrid disc information comprises part version information indicating a version number of the hybrid disc.

22. (CURRENTLY AMENDED) The optical recording medium according to claim 20, wherein the hybrid disc information comprises:

existence information indicating that the optical recording medium is a hybrid disc having the read-only storage area and the non-magnetic writable storage area; and
part version information indicating a version number of the hybrid disc,
wherein the existence information and the part version information are stored in bytes 17 and 18 of the physical format information.

23. (CURRENTLY AMENDED) The optical recording medium according to claim 1, wherein the second control information comprises:

a connection zone which connects the read-only storage area and the non-magnetic writable storage area;
at least one defect management zone; and
a drive test zone.

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a drive test zone.

24. (CURRENTLY AMENDED) The optical recording medium according to claim 16, wherein the second control information comprises:

a connection zone which connects the read-only storage area and the non-magnetic writable storage area;

at least one defect management zone; and
a drive test zone.

25 – 34 (CANCELED)

35. (CURRENTLY AMENDED) An optical recording medium, comprising:

a read-only storage area at an inner part of the optical recording medium; and

a non-magnetic writable storage area at an outer part of the optical recording medium, wherein the read-only storage area comprises a lead-in area having first control information for both the read-only and non-magnetic writable storage areas, and the non-magnetic writable storage area comprises a lead-in area having second control information relating to the non-magnetic writable storage area.

36. (PREVIOUSLY PRESENTED) The optical recording medium according to claim 35, wherein the optical recording medium further comprises:

a first substrate having the read-only storage area extending from the inner part to the outer part of the first substrate; and

a second substrate attached to the first substrate, having a transparent region extending from the inner part to the outer part of the second substrate.

37 – 40 (CANCELED)

41. (CURRENTLY AMENDED) A digital versatile disc (DVD) comprising:

a read-only storage area having a lead-in area and a data area; and

a non-magnetic writable storage area having a lead-in area and a data area, wherein the lead-in area of read-only storage area comprises physical format information for the read-only storage area and the non-magnetic writable storage.

42. (CURRENTLY AMENDED) The DVD according to claim 41, wherein the lead-

area of the read-only storage area comprises hybrid disc information indicating whether the non-magnetic writable storage area exists.

43. (CURRENTLY AMENDED) The DVD according to claim 41, wherein the lead-in area of the non-magnetic writable storage area comprises physical format information for the non-magnetic writable storage area, including a connection zone which connects the read-only storage area and the non-magnetic writable storage area, at least one defect management zone, and a drive test zone.

44. (CURRENTLY AMENDED) The DVD according to claim 42, wherein the lead-in area of the non-magnetic writable storage area comprises physical format information for the non-magnetic writable storage area, including a connection zone which connects the read-only storage area and the non-magnetic writable storage area, at least one defect management zone, and a drive test zone.

45. (CURRENTLY AMENDED) An apparatus for recording and reproducing data onto/from an optical recording medium having a read-only storage area at an inner part of the optical recording medium and a non-magnetic writable storage area at an outer part of the optical recording medium, the apparatus comprising:

- a system controller which generates identification information to indicate that the optical recording medium is a hybrid disc having the read-only storage area and the non-magnetic writable storage area; and

- a recording and/or reproducing unit which records or reads data from the read-only storage area and the non-magnetic writable storage area based on the generated identification information which is stored in a lead-in area of the read-only storage area.

46. (CURRENTLY AMENDED) The apparatus according to claim 45, wherein:
the system controller generates first control information for both the read-only and non-magnetic writable storage areas and second control information relating to the non-magnetic writable storage area; and

- the recording and/or reproducing unit records the first control information in the lead-in area of the read-only storage area and records the second control information in a lead-in area of the non-magnetic writable storage area.

47. (CURRENTLY AMENDED) The apparatus according to claim 46, wherein the second control information comprises:

a connection zone to connect the read-only storage area and the non-magnetic writable storage area;

a defect management zone to manage defects in the non-magnetic writable storage area; and

a drive test zone.

48. (CURRENTLY AMENDED) The apparatus according to claim 46, wherein the first control information comprises:

physical format information of the read-only storage area; and

physical format information of a control data zone of the non-magnetic writable storage area.

49. (CURRENTLY AMENDED) The apparatus according to claim 48, wherein: the second control information comprises:

a connection zone to connect the read-only storage area and the non-magnetic writable storage area,

a defect management zone to manage defects in the non-magnetic writable storage area, and

a drive test zone; and

the reproducing and/or reproducing unit reads the physical format information for the read-only storage area and the non-magnetic writable storage area to reproduce data in the read-only storage area and the non-magnetic writable storage areas, respectively, and reads the connection zone, defect management zone and drive test zone to control the data in the non-magnetic writable storage area.

50. (CURRENTLY AMENDED) The apparatus according to claim 45, wherein the identification information comprises information indicating a presence or absence of the non-magnetic writable storage area on the hybrid disc, and information on a part version of the hybrid disc.

51. (ORIGINAL) The apparatus according to claim 45, wherein the recording and/or reproducing unit records the first control information using reserved bytes of physical format information according to a digital versatile disc (DVD) specification.

52. (CURRENTLY AMENDED) The apparatus according to claim 45, wherein the recording and/or reproducing unit controls a reference linear velocity for reproducing the

data in the read-only storage area to be the same as a reference linear velocity of data at an innermost part of the non-magnetic writable storage area.

53. (ORIGINAL) The apparatus according to claim 45, wherein the read-only lead-in area comprises:

a control data zone which stores the first control information.

54. (CURRENTLY AMENDED) The apparatus according to claim 53, wherein the first control information comprises:

physical format information for the read-only storage area;

hybrid disc identification information indicating that the optical recording medium is a hybrid disc having the read-only storage area and the non-magnetic writable storage area; and

physical format information for the non-magnetic writable storage area.

55. (CURRENTLY AMENDED) The apparatus according to claim 54, wherein the physical format information for the non-magnetic writable storage area is stored in bytes 1024 through 2047 of the first control information.

56. (ORIGINAL) The apparatus according to claim 55, wherein the physical format information for the read-only storage area is stored in bytes 0 through 16 of the first control information and the hybrid disc identification information is stored in bytes 17 and 18 of the first control information.

57. (ORIGINAL) The apparatus according to claim 56, wherein the physical format information for the read-only storage area comprises:

book type information indicating that the optical recording medium is compatible with a digital versatile disk read-only memory (DVD-ROM) specification; and

a part version information indicating a version number of the optical recording medium;

wherein the book type information and part version information are stored in byte 0 of the first control information.

58. (ORIGINAL) The apparatus according to claim 54, wherein the physical format information for the read-only storage area comprises:

book type information indicating that the optical recording medium is compatible with a digital versatile disk read-only memory (DVD-ROM) specification; and

a part version indicating a version number of the optical recording medium.

59. (CURRENTLY AMENDED) The apparatus according to claim 58, wherein the hybrid disc information comprises:

existence information indicating that the optical recording medium is a hybrid disc having the read-only storage area and the non-magnetic writable storage area; and
part version information indicating a version number of the hybrid disc,
wherein the existence information and the part version information are stored in bytes 17 and 18 of the physical format information.

60. (ORIGINAL) The apparatus according to claim 54, wherein the hybrid disc information comprises part version information indicating a version number of the hybrid disc.

61. (CURRENTLY AMENDED) The apparatus according to claim 54, wherein the second control information comprises:

a connection zone which connects the read-only storage area and the non-magnetic writable storage area;
at least one defect management zone; and
a drive test zone.

62. (CURRENTLY AMENDED) The apparatus according to claim 45, wherein the second control information comprises:

a connection zone which connects the read-only storage area and the non-magnetic writable storage area;
at least one defect management zone; and
a drive test zone.

63. (CURRENTLY AMENDED) The apparatus according to claim 45, wherein the optical recording medium has first control information for both the read-only and non-magnetic writable storage areas in the lead-in area of the read-only storage area and second control information relating to the non-magnetic writable storage area in a lead-in area of the non-magnetic writable storage area, the recording and/or reproducing unit reading the first and second control information so that the system controller causes the recording and/or reproducing unit to read the data from the read-only and non-magnetic writable storage areas based upon the first and second control information.

64. (ORIGINAL) The apparatus according to claim 48, wherein the recording and/or

reproducing unit reads the first control information from reserved bytes of physical format information according to a digital versatile disc (DVD) specification.

65. (CURRENTLY AMENDED) An apparatus for reproducing data from an optical recording medium having read-only storage area at an inner part and a non-magnetic writable storage area at an outer part of the optical recording medium, the apparatus comprising:

a reproducing unit which reproduces data from the read-only storage area and the non-magnetic writable storage area; and

a system controller which controls a reference linear velocity of the reproducing unit for reproduction of the data in the read-only storage area to be the same as a reference linear velocity for reproduction of the data in an innermost part of the non-magnetic writable storage area.

66. (CURRENTLY AMENDED) A method of recording and reproducing data onto/from an optical recording medium having a read-only storage area at an inner part of the optical recording medium and a non-magnetic writable storage area at an outer part of the optical recording medium, the method comprising:

generating identification information to indicate that the optical recording medium is a hybrid disc having the read-only storage area and the non-magnetic writable storage area; and

recording the generated identification information in a lead-in area of the read-only storage area.

67. (CURRENTLY AMENDED) The method according to claim 66, further comprising:
generating first control information for both the read-only and non-magnetic writable storage areas and second control information relating to the non-magnetic writable storage area;
and

recording the first control information in the lead-in area of the read-only storage area and recording the second control information in a lead-in area of the non-magnetic writable storage area.

68. (CURRENTLY AMENDED) The method according to claim 67, wherein the first control information comprises:

physical format information of the read-only storage area; and

physical format information of a control data zone of the non-magnetic writable storage area.

69. (CURRENTLY AMENDED) The method according to claim 67, wherein the second control information comprises:

a connection zone to connect the read-only storage area and the non-magnetic writable storage area;

a defect management zone to manage defects in the non-magnetic writable storage area; and

a drive test zone.

70. (CURRENTLY AMENDED) The method according to claim 67, wherein: the second control information comprises:

a connection zone to connect the read-only storage area and the non-magnetic writable storage area, a defect management zone to manage defects in the non-magnetic writable storage area, and

a drive test zone; and

the method further comprising:

reading the physical format information for the read-only storage area and the non-magnetic writable storage area to reproduce data in the read-only storage area and the non-magnetic writable storage areas, respectively, and reading the connection zone, defect management zone and drive test zone to control the data in the non-magnetic writable storage area.

71. (CURRENTLY AMENDED) The method according to claim 66, wherein the identification information comprises information indicating a presence or absence of the non-magnetic writable storage area on the hybrid disc, and information on a part version of the hybrid disc.

72. (ORIGINAL) The method according to claim 66, wherein the recording of the first control information comprises recording the first control information in reserved bytes of physical format information according to a digital versatile disc (DVD) specification.

73. (CURRENTLY AMENDED) The method according to claim 66, further comprising: controlling a reference linear velocity for reproducing data in the read-only storage area to be the same as a reference linear velocity of data at an innermost part of the non-magnetic writable storage area.

74. (ORIGINAL) The method according to claim 66, wherein the read-only lead-in

area comprises:

a control data zone which stores the first control information.

75. (CURRENTLY AMENDED) The method according to claim 74, wherein the first control information comprises:

physical format information for the read-only storage area;

hybrid disc identification information indicating that the optical recording medium is a hybrid disc having the read-only storage area and the non-magnetic writable storage area; and

physical format information for the non-magnetic writable storage area.

76. (CURRENTLY AMENDED) The method according to claim 75, wherein the physical format information for the non-magnetic writable storage area is stored in bytes 1024 through 2047 of the first control information.

77. (ORIGINAL) The method according to claim 76, wherein the physical format information for the read-only storage area is stored in bytes 0 through 16 of the first control information and the hybrid disc identification information is stored in bytes 17 and 18 of the first control information.

78. (ORIGINAL) The method according to claim 75, wherein the physical format information for the read-only storage area comprises:

book type information indicating that the optical recording medium is compatible with a digital versatile disk read-only memory (DVD-ROM) specification; and

a part version indicating a version number of the optical recording medium.

79. (ORIGINAL) The method according to claim 77, wherein the physical format information for the read-only storage area comprises:

book type information indicating that the optical recording medium is compatible with a digital versatile disk read-only memory (DVD-ROM) specification; and

a part version information indicating a version number of the optical recording medium;

wherein the book type information and part version information are stored in byte 0 of the first control information.

80. (ORIGINAL) The method according to claim 75, wherein the hybrid disc information comprises part version information indicating a version number of the hybrid disc.

81. (CURRENTLY AMENDED) The method according to claim 79, wherein the hybrid disc information comprises:

- existence information indicating that the optical recording medium is a hybrid disc having the read-only storage area and the non-magnetic writable storage area; and
- part version information indicating a version number of the hybrid disc,

wherein the existence information and the part version information are stored in bytes 17 and 18 of the physical format information.

82. (CURRENTLY AMENDED) The method according to claim 66, wherein the second control information comprises:

- a connection zone which connects the read-only storage area and the non-magnetic writable storage area;
- at least one defect management zone; and
- a drive test zone.

83. (CURRENTLY AMENDED) The method according to claim 77, wherein the second control information comprises:

- a connection zone which connects the read-only storage area and the non-magnetic writable storage area;
- at least one defect management zone; and
- a drive test zone.

84. (CURRENTLY AMENDED) A method comprising:

- reproducing data from an optical recording medium having a read-only storage area at an inner part of the optical recording medium and a non-magnetic writable storage area at an outer part of the optical recording medium;
- storing identification information in a lead-in area of the read-only storage area to indicate that the optical recording medium is a hybrid disc having the read-only storage area and the non-magnetic writable storage area;
- reading the identification information from the lead-in area of the read-only storage area;

and

- reading data from the read-only and non-magnetic writable storage areas based upon the identification information.

85. (CURRENTLY AMENDED) The method according to claim 84, wherein the optical recording medium has first control information for both the read-only and non-magnetic

writable storage areas in the lead-in area of the read-only storage area and second control information relating to the non-magnetic writable storage area in a lead-in area of the non-magnetic writable storage area, wherein:

the reading of the identification information comprises reading the first and second control information; and

the reading of the data comprises reading the data from the read-only and non-magnetic writable storage areas based upon the first and second control information.

86. (CURRENTLY AMENDED) The method according to claim 85, wherein the first control information comprises:

physical format information of the read-only storage area; and

physical format information of a control data zone of the non-magnetic writable storage area.

87. (ORIGINAL) The method according to claim 86, wherein the reading of the identification information comprises reading the first control information from reserved bytes of physical format information according to a digital versatile disc (DVD) specification.

88. (CURRENTLY AMENDED) The method according to claim 86, wherein:
the second control information comprises:

a connection zone to connect the read-only storage area and the non-magnetic writable storage area, a defect management zone to manage defects in the non-magnetic writable storage area, and

a drive test zone; and

the reading of the identification information comprises reading the physical format information for the read-only storage area and the non-magnetic writable storage area to reproduce data in the read-only storage area and the non-magnetic writable storage areas, respectively, and reading the connection zone, defect management zone and drive test zone to control the data in the non-magnetic writable storage area.

89. (CURRENTLY AMENDED) The method according to claim 84, wherein the identification information comprises information indicating a presence or absence of the non-magnetic writable storage area on the hybrid disc, and information on a part version of the hybrid disc.

90. (CURRENTLY AMENDED) The method according to claim 84, further comprising

controlling a reference linear velocity for reproducing data in the read-only storage area to be the same as a reference linear velocity of data at an innermost part of the non-magnetic writable storage area.

91. (CURRENTLY AMENDED) The method according to claim 85, wherein the second control information comprises:

a connection zone to connect the read-only storage area and the non-magnetic writable storage area;

a defect management zone to manage defects in the non-magnetic writable storage area; and

a drive test zone.

92. (CURRENTLY AMENDED) A method of reproducing data from an optical recording medium having read-only storage area at an inner part and a non-magnetic writable storage area at an outer part of the optical recording medium, the method comprising:

reproducing data from the read-only storage area and the non-magnetic writable storage area; and

controlling a reference linear velocity for reproduction of the data in the read-only storage area to be the same as a reference linear velocity for recording or reproduction of the data in an innermost part of the non-magnetic writable storage area.

93. (PREVIOUSLY PRESENTED) A method of controlling a DVD-RAM area of an optical recording medium having a DVD-ROM area in an inner part and the DVD-RAM area in an outer part of the optical recording medium, wherein the DVD-ROM area includes a lead-in area having first control information of physical format information for the DVD-ROM and DVD-RAM areas, the method comprising:

reading the first control information from the lead-in area of the DVD-ROM area; and

controlling the data in the DVD-ROM area and the DVD-RAM area based upon the read first control information.

94. (ORIGINAL) The method according to claim 93, wherein the DVD-RAM area has a lead-in area having second control information with connection data for the DVD-ROM and DVD-RAM areas and defect management information, the method further comprising:

reading the second control information from the lead-in area of the DVD-RAM area; and

accessing the DVD-RAM area and managing defects in the DVD-RAM area based upon the second control information.